

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,780	08/19/2003	Lloyd Randall Anderson	047982/268782	4113
826 75	11/02/2005		EXAMINER	
ALSTON & BIRD LLP			NGUYEN, KIEN T	
BANK OF AM	ERICA PLAZA			
101 SOUTH TRYON STREET, SUITE 4000			ART UNIT	PAPER NUMBER
CHARLOTTE NC 28280-4000			3711	

DATE MAILED: 11/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Talta

	Application No.	Applicant(s)				
Office Asticus Occurrence	10/643,780	ANDERSON, LLOYD RANDALL				
Office Action Summary	Examiner	Art Unit				
	Kien T. Nguyen	3711				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEL	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>06 Ju</u>	ne 2005.					
· <u> </u>	action is non-final.					
· <u> </u>	· · · · · · · · · · · · · · · · · · ·					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disconnectation of Obstance		·				
Disposition of Claims						
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.	· · · · · · · · · · · · · · · · · · ·					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
, , , , , , , , , , , , , , , , , , , ,	5)⊠ Claim(s) <u>6-14 and 19-24</u> is/are allowed.					
	Claim(s) <u>1 and 15-18</u> is/are rejected.					
· <u> </u>	Claim(s) <u>2-5</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the Ex	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
· _ ·	s have been received					
	 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 					
·						
* See the attached detailed Office action for a list of the certified copies not received.						
oco allo attablico detalleo Office action for a list of the certified copies flot received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date 6) Other:						
0 Poloston (7 v. d. v. d. O 7 v.						

Application/Control Number: 10/643,780

Art Unit: 3711

Claim Rejections - 35 USC § 112

Claims 17 and 18 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim s 17 and 18 recite the limitation "the flexible strips" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 15 and 16 are rejected under 35 U.S.C. 102(e) as being anticipated by Lang.

Lang disclosed an apparatus comprising a flexible material (10) having low permeability to a lighter than air gas, the flexible material (10) defining a chamber (interior portion of the reference numeral 10); at least one structural member (16) coupled to the flexible material (10) such that when the chamber is filled with gas to a known level, the apparatus is substantially neutrally buoyant under ambient conditions.

Application/Control Number: 10/643,780 Page 3

Art Unit: 3711

The structural member (16) (welded joint) is typically an adhesive an/or heat welded joint. Accordingly, the adhesive material considers a separate structure from that of the flexible material.

A portion of the welded joint defines at least a portion of a shape of the chamber.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lang (455) in view of Garcia.

Lang disclosed an apparatus comprising a flexible material (10) having low permeability to a lighter than air gas, the flexible material (10) defining a chamber (interior portion of the reference numeral 10); at least one structural member (16) coupled to the flexible material (10) such that when the chamber is filled with gas to a known level, the apparatus is substantially neutrally buoyant under ambient conditions. It is noted that Lang failed to disclose a valve to seal the chamber. Such valve for a balloon is very well known in the art as evidenced by valve (10) of Garcia. Therefore, it would have been obvious to one of ordinary skill in the art to modify the apparatus of Lang with the valve as taught by Garcia for the advantage of permitting the regulation of gas into the chamber.

Allowable Subject Matter

Art Unit: 3711

Claims 2-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 6-14, and 19-24 are allowed.

Claims 17 and 18 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kien T. Nguyen whose telephone number is (571) 272-4428. The examiner can normally be reached on 7:30 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eugene Kim can be reached on (571) 272-4463. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> **Primary Examiner** Art Unit 3711